



N49RF ERROR SUMMARY

ENRR Mission Flight #1

21 January 2016



Flight ID: 20160121N2

Sensor or system

Static Pressure Probe
Dynamic Pressure Probe
Total Temperature Probe
Dewpoint Temp. Probe
Vertical Accelerometer
Altimeter
INE Selection
Differential Attack Pressure Probe
Differential Sideslip Pressure Probe
Dynamic Attack Pressure Probe
Dynamic Sideslip Pressure Probe
Flight Directory

Number or Name

PSM.2
PQM.2
TTM.4
TDM.1X
AccZfilterI.1
AltGPS.3
1
PDALPHA.2
PDBETA.1
PQALPHA.2
PQBETA.1
acdata/2016/MET/20160121N2

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff - PHNL (2100Z)

1014.6 mb
1018.2 mb

Landing – PHNL (0447Z)

1014.2 mb
1016.9 mb

Notes:

The Edgetech dewpoint sensor (TDM.1)* was the most representative dewpoint sensor throughout and was therefore used as the source. However it did require one manual edit to correct for an unrealistic spike in data. Specifically, TDM.1 was edited/corrected between 01:20:30Z through 01:33:15Z.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was, and dpj_wz in the netCDF file represent vertical ground, vertical air, and vertical wind speeds respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

*TDM.1 and TDM.2 are not rated for use under -50 deg C, so neither can be considered reliable for dew points colder than -50C. While normally reliable at lower altitudes, both dew point sensors displayed anomalously low values and abnormal oscillations during takeoff climb and descent to landing. Therefore, all flight level humidity data for this mission should be considered suspect. All other sensors performed nominally.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	31	31	30
Test Sondes	0	0	0

Flight Director:
Phone #:

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